

Patent Abstracts of Japan

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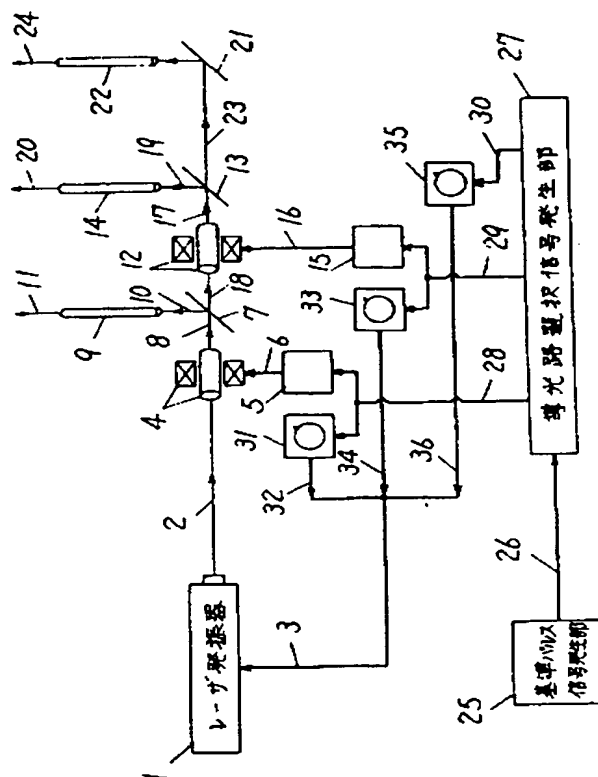
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TITLE : LASER DEVICE



ABSTRACT : PURPOSE: To enable simultaneous use of one oscillator for plural objects having different irradiating conditions by connecting plural optical guides to the one oscillator and providing means for controlling independently the power of the respective optical guides.

CONSTITUTION: The laser light 2 emitted from a laser oscillator 1 is connected to plural optical guides 9, 14, 22 according to a set signal 3. A reference pulse signal 26 is fed to a part 27 for generating selection signals for the optical guides which outputs successively selection signals 28, 29, 30 for the 1st~3rd optical guides. Control parts 5, 15, 35 for Faraday rotators output similarly respective driving currents 6, 16 in synchronization with the signals 28, 29, 30. The signals 28, 29, 30 are fed to respective power setting parts 31, 33, 35 for the outputs from the optical guides and the set signals 32, 34, 36 thereof are fed to the oscillator 1. The laser light of the controlled power are conducted through Faraday rotators 4, 12, Brewster windows 7, 13 and a reflecting mirror 21 to the respective optical guides 9, 14, 22 and working light 11, 20, 24 are obtd.

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